

Page 23, line 8, replace "drawing file, such as file 214" with --file, such as the two-dimensional file 214--.

Page 23, line 12, replace "with the" with --with respect to the--.

Page 23, line 21, replace "the file" with --two-dimensional file 214--.

In the Figures

NE
Formal drawing sheets 1-2XX are provided herewith as replacements for the originally filed informal drawings.

In the Claims

Please cancel claims 1-12 which are directed to unelected groups I and II.

Please cancel claim 16.

Please Amend the Claims As follows:

Each amended claim is presented in its final form below followed by a marked-up copy of the amended claim showing the specific amendments.

Final Form:

NE
13. A method of showing a relationship between, at least two views of a three dimensional model, the method comprising:

processing three-dimensional model data to generate a two-dimensional drawing of the model, the drawing comprising a first and a second view of the model;
receiving user input to position a pointer at a location in three-dimensional space;
displaying the two-dimensional drawing, said displaying including:
displaying the pointer in the first view at a relative location in the first view's two-dimensional space that corresponds to the location of the pointer in three-dimensional space; and

displaying the pointer in the second view at a relative location in the second view's two-dimensional space that corresponds to the location of the pointer in three-dimensional space.

15. A method, according to claim 13, further comprising:

in response to a user moving the pointer in the first one of the views, moving the pointer a corresponding amount in the second one of the views.

17. A method, according to claim 15, wherein the first view comprises a first two-dimensional coordinate space representing a projection of the model, and the method further comprising:

receiving input from a user to move the pointer in the first two-dimensional coordinate space;

determining a new location of the pointer in three-dimensional space by applying an inverse of a transform matrix mapping the model to the first view to determine a new location of the pointer based on the received input moving the pointer in the first two-dimensional coordinate space.

18. A method, according to claim 17, wherein a new location for the pointer in the second view is determined by applying the transform matrix for the second view to the new location of the pointer.

19. A method implemented in a computer aided design system of displaying a three dimensional model having a plurality of two dimensional views associated therewith, each view comprising a representation of the model from a predetermined viewpoint comprising:

rotating the model to present a first one of the views;

pausing to show the first one of the views; and

continuously rotating and pausing the model to present other ones of the views.

27. A computer-based system, for providing interpretation of an electronic drawing, having a plurality of views, comprising:

- NE
- a virtual folding process for permitting a viewer to view selected views in proximity to each other from a the plurality of possible views;
 - a hyperlink process for simultaneously highlighting at least one the coordinates of a viewed object as the coordinates appears in more than one view;
 - a pointer for simultaneously pointing to the same point of a viewed object as the point appears in more than one view; and
 - a drawing animator for rotating the a three-dimensional depiction of the viewed object about an axis of rotation and highlighting a two-dimensional view when the view is coincident with the plane of the drawing.

28. A computer-based system, according to claim 27, wherein two-dimensional data for the electronic drawing and a program for displaying the electronic drawing are stored in a single file.

Marked-Up Form

13. A method of ~~correlating showing a relationship between~~, at least two views of an object ~~a three dimensional model~~, the method comprising:

processing three-dimensional model data to generate a two-dimensional drawing of
5 the model, the drawing comprising a first and a second view of the model;
providing receiving user input to position a pointer having an absolute at a location in
three-dimensional space;

displaying the two-dimensional drawing, said displaying including:

10 displaying the pointer in a first one of the views the first view at a relative location
in the first view's two-dimensional space that corresponds to the
corresponding to the absolute location of the pointer in three-dimensional
space; and

15 displaying the pointer in a second one of the views the second view at a relative
location in the second view's two-dimensional space that corresponds to the
corresponding to the absolute location of the pointer in three-dimensional
space.

15. A method, according to claim 13, further comprising:

in response to the a user moving the pointer in the first one of the views, moving the
pointer a corresponding amount in the second one of the view views.

20 17. A method, according to claim 15, wherein the first view comprises a first two-
dimensional coordinate space representing a projection of the model, and the method
further comprising:

receiving input from a user to move the pointer in the first two-dimensional
coordinate space;

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determining a new absolute location of the pointer in three-dimensional space by
applying an inverse of a transform matrix for mapping the model to the first
view ~~the first one of the views~~ to determine a new absolute location of the pointer
based on the received input moving the pointer in the first two-dimensional
5 coordinate space ~~movement of the pointer by the user in the first one of the views.~~

18. A method, according to claim 17, wherein a new ~~relative~~ location for the pointer in
the second view is determined by applying the transform matrix for the second ~~one of the~~
~~views~~ view to the new absolute location of the pointer.

19. A method implemented in a computer aided design system of displaying a three
10 dimensional model having a plurality of two dimensional views associated therewith,
each view comprising a representation of the model from a predetermined viewpoint
comprising:

rotating the model to present a first one of the views;
pausing to show the first one of the views; and
15 continuously rotating and pausing the model to present other ones of the views.

27. A computer-based system, for providing interpretation of ~~a two-dimensional~~ an
electronic drawing, having a plurality of views, comprising:

a virtual folding process for permitting a viewer to view selected views in proximity
to each other from a the plurality of possible views;
20 a hyperlink process for simultaneously highlighting at least one the coordinates of a
viewed object as the coordinates appears in more than one view;
a pointer for simultaneously pointing to the same point of a viewed object as the point
appears in more than one view; and
a drawing animator for rotating the a three-dimensional depiction of the viewed
25 object about an axis of rotation and highlighting a two-dimensional view when the
view is coincident with the plane of the drawing.

28. A computer-based system, according to claim 27, wherein two-dimensional data for the two-dimensional electronic drawing and a program for displaying the electronic drawing are stored in a single file.

29. (New) A computer-based system, according to claim ²¹~~28~~, further comprising storing
5 three-dimensional data in the single file.

B1 30. (New) A method, according to claim ¹~~13~~, wherein:
the first view comprises a first plurality of two-dimensional objects,
the second view comprises a second plurality of two-dimensional objects, and
for each of said first plurality of two-dimensional objects there is a corresponding one
10 of the second plurality of two-dimensional objects such that corresponding ones
of the two-dimensional objects represent a same feature of the three dimensional
model.

31. (New) A method according to claim ⁶~~30~~ wherein, in response to a change in a first one
of the views when the second one of the views is not visible on a user screen,
15 automatically displaying the second one of the views on the user screen.

32. (New) The method of claim ¹⁰~~19~~ wherein data for the display of each two-dimensional
view and a program for displaying the views are stored in a single file.

33. (New) The method of claim ¹⁸~~32~~ further comprising storing three-dimensional model
data in the single file.

34. (New) The method of claim ⁸~~13~~ wherein the data for the display of the two-
dimensional drawing and a program for displaying the two-dimensional drawing are
20 stored in a single file.

⁹
~~35~~. (New) The method of claim ~~34~~⁸ further comprising storing three-dimensional data in the single file.

²³
~~36~~. (New). A method of showing a relationship between at least two views of a model, the method comprising:

- 5 processing model data comprising data detailing a model and data defining a plurality of drawing views of the model, each drawing view comprising a plurality of two-dimensional objects determined from the data detailing the model;
- displaying a first one of the drawing views on an output device;
- receiving input from a user selecting a first object from the first drawing view;
- 10 selecting a second one of the drawing views based on a correspondence between the selected first object and the second view, said correspondence being determined based on the model data; and
- automatically displaying the second view to the user.

²⁴
15 ~~37~~. (New) The method of claim ~~36~~²³ wherein displaying the second view comprises displaying the first and second view simultaneously.

²⁵
~~38~~. (New) The method of claim ~~36~~²³ wherein:

the selected first object comprises a detail circle representing an area of the first view for which there is a corresponding detailed view, and selecting the second view comprises selecting said corresponding detailed view.

²⁶
20 ~~39~~. (New) The method of claim ~~36~~²³ wherein the model is a three-dimensional model.

²⁷
~~40~~. (New) The method of claim ~~39~~²⁴ wherein:

the selected first object comprises a section line representing a position of a corresponding sectional view of the three-dimensional model, and selecting the second view comprises selecting said corresponding sectional view.

²⁸
41. (New) The method of claim ²⁸39 wherein:

the selected first object is derived from data modeling a first part of the three dimensional model;

the second view comprises a second object derived from the first part of the three dimensional model

selecting a second one of the drawing views based on a correspondence between the selected first object and the second view comprises selecting based on the first object and the second object being derived from the same part of the three dimensional model.

²⁹
10 ²⁸42. (New) A method, according to claim ²⁸39, wherein:

the first view comprises a first plurality of two-dimensional objects,

the second view comprises a second plurality of two-dimensional objects, and

for each of said first plurality of two-dimensional objects there is a corresponding one of the second plurality of two-dimensional objects such that corresponding ones of the two-dimensional objects represent a same feature of the three dimensional model.

³⁰
43. (New) A method of displaying a plurality of views of a model/the method comprising/

generating a plurality of different views of a same model;/

automatically arranging the views as sections of a same drawing/wherein

automatically arranging comprises applying rules conforming the arrangement of the views to a drafting standard;/and

displaying the drawing comprising the arranged views.

³¹
44. (New) The method of claim ³⁰43 wherein:

the arranged views comprise a first and a second view,

the second view is a projection of the first view, and

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Cont.

arranging to drafting standards comprises arranging in a horizontal or vertical alignment conforming to a drafting standard selected from the group consisting of an ANSI drafting standard and an ISO drafting standard.

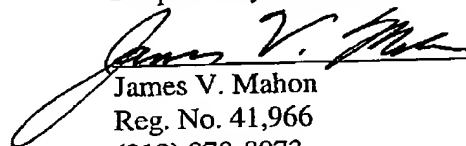
Claims 1-12 and 16 have been canceled; claims 13, 15, 17-19, 27-28 have been amended; claims 29-44 have been added. No new matter has been added.

Claims 13-15, and 17-44 are now pending and are believed to be in condition for allowance.

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Respectfully submitted,


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